

US EPA RECORDS CENTER REGION 5



465790

Monthly Oversight Report 9  
ACS NPL Site  
Griffith, Indiana  
September 1 - September 28, 2001



# BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII  
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526  
BVSPC File C.3  
October 12, 2001

Mr. Kevin Adler  
U.S. Environmental Protection Agency  
77 W. Jackson Boulevard (SR-6J)  
Chicago, Illinois 60604-3590

Subject: Monthly Oversight Summary Report  
No. 9 for September 2001

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 9 for September 2001 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email ([campbellm@bv.com](mailto:campbellm@bv.com)).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.  
Site Manager

Enclosure

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**Monthly Oversight Summary Report No. 9**  
**ACS Superfund Site WA30, 46526.238**

**Reporting Period:** Month of September (September 1 - September 28, 2001)

**BVSPC O/S Dates:** September 4, 6, 11, 13, 19, 20, 25, and 27, 2001

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	7	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
USEPA	1	
IDEM	1	
Austgen Electrical	3	Electrical Contractor
Koester Environmental Services	3	OFCA Temporary Cover Contractor
Midwest Environmental, Inc.	5	PCB Soils Excavation Contractor
Slusser's	14	OFCA Seeding and Erosion Matting Contractor
Boart Longyear	9	ISVE Well Installation Contractor
Hertz	1	Rental Construction Equipment
Security Fencing	1	Silt Fence Contractor
Heritage Environmental Services, LLC	2	Potential Drum Waste Disposal Contractor
US Floor	2	Concrete Sealant Contractor
Fliteway	1	OFCA Blower Shed Contractor
Maxim	2	Crane Operator

## **Construction Activities**

### **Major Activities:**

- Koester Environmental Services completed OFCA cover installation.
- Slusser's completed seeding and installation of erosion matting on OFCA.
- Boart Longyear completed installation of 42 ISVE wells, 3 air sparge points, and 10 replacement piezometers.
- Ryan Construction poured OFCA blower shed concrete floor slab.
- US Floor sealed the OFCA blower shed concrete floor slab.
- Montgomery Watson Harza installed the OFCA blower shed.
- Austgen installed power boxes at the OFCA extraction wells and the power pad mounting.
- Midwest Environmental, Inc. completed the excavation of PCB-impacted soils and pond excavation activities.
- Montgomery Watson Harza completed the limited September groundwater sampling event and sampled the South Pilot Test Area ORC wells.
- Montgomery Watson Harza recommended Heritage Environmental Services, LLC to the PRP Group as the drum disposal contractor.
- Montgomery Watson Harza issued a Request for Bids for the OFCA ISVE yard piping.

### **Activities Performed:**

Koester Environmental Services completed the OFCA cover and placed topsoil on the non-engineered cover areas. Slusser's tilled the topsoil and applied hydroseed. Slusser's also installed erosion matting on the interior swales. Montgomery Watson Harza (MWH) reported that an Austgen driver had created depressions in the cover, causing water to pond on the OFCA cover at the intersection of swales 2 and 4. MWH stated that the area will be smoothed out in the future to reduce ponding.

Boart Longyear (BLA) completed the installation of 42 ISVE wells, 3 air sparge points, and 10 replacement piezometers in the OFCA. The majority of well installation activities were conducted in modified Level B PPE. PVC-coated Tyvek was used when drilling activities encountered liquid materials. Continuous air monitoring was conducted at the drill rig by BLA. Both BLA and MWH conducted air monitoring at the perimeter of the exclusion zone with a PID. Several air samples were also analyzed with Draeger tubes for vinyl chloride and benzene depending on the PID readings. BLA knocked down a 5-foot-long, 4-inch-diameter stainless steel riser at SVE-36. MWH determined that the riser broke from the well at the coupling between the two without damaging the well. BLA subsequently reattached the 5-foot-long riser to the well with a stainless steel collar. All of the ISVE wells were installed at the design location and depth except for SVE-13 which was moved approximately 10 feet to the north to accommodate the blower shed. BLA installed the three air sparge points on the northern portion of the OFCA ISVE well field. Ten replacement piezometers were also installed by BLA near the perimeter of the OFCA, inside and outside of the barrier wall.

Midwest Environmental, Inc. (MEI) completed excavating the PCB-impacted soils from the wetland area. The PCB-impacted soils were placed in the ONCA firepond area. MWH submitted samples taken from the excavation to CompuChem and Simalabs for PCB analysis. MEI completed the pond in the wetland



area and constructed a swale extending from surface discharge location 1 to the pond. MEI staged the pond excavation materials on the eastern portion of the OFCA for future use as the root zone material in the final cap. A silt fence was installed by Security Fencing around the material excavated from the wetlands.

Ryan Construction poured the OFCA blower shed concrete floor slab with a 28-day compressive strength of 5,000 psi concrete mix. US Floor sealed the floor slab with a sealant that could be applied to “green” concrete and cured chemically in 48 hours. MWH, Maxim, and Fliteway installed the blower shed onto the concrete floor slab. MWH contracted Austgen to install electrical power to the blower shed. A Request for Bids for the ISVE yard piping was issued by MWH on September 18, 2001.

MWH ceased pumping from the wetland excavation and discharging to the area located to the south of the railroad tracks. MWH began using the three discharge structures in the wetland area. MWH continued to pump from EW-10, EW-11, and MW56. At the end of September, MWH began pumping from EW-19, EW-20B, and EW-20C. MWH reported that the GWTP continued to operate properly. The September limited quarterly groundwater sampling event for indicator parameters was conducted on September 25, 2001. The wells sampled during the event were MW56, MW9R, MW10C, MW48, and MW49. The South Area Pilot Study ORC wells were sampled on September 26, 2001. Samples from the South Area Pilot Study ORC wells were analyzed for VOCs.

MWH consulted with Heritage Environmental Services, LLC (Heritage) for the disposal of the drum removal wastes. Heritage visited the site to assess the wastes. According to MWH, Heritage can accept the overpack drum waste with the Hazcat analysis performed during removal activities. The drum carcass wastes will be segregated and sized for incineration. MWH has recommended using Heritage to the PRP Group.

On September 19, 2001, MWH hosted a group of delegates from Taiwan. MWH provided an introduction to the site and a tour of the GWTP.

Attached are Black & Veatch Special Projects Corp. (BVSPC) weekly reports No. 27 through 30, correspondence, log book notes, and photographs of the daily activities. BVSPC’s crew conducted oversight of the major field activities on September 4, 6, 11, 13, 19, 20, 25 and 27, 2001. BVSPC’s crew attended four weekly construction meetings on September 6, 13, 20, and 27, 2001.

**Topics of Concern:**

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- Installation of the abandonment casing around ATMW-4D is suspect as to its effectiveness because the outer casing was driven in with the kelly bar and the auger chuck. Driving the casing down does not allow the tremmie pipe to reach the bottom of the annulus space on the outside of the casing for proper grouting.

**Concern Resolution:**

- None to report this month.

**Upcoming Activities:**

- MWH to select contractor for OFCA ISVE yard piping installation.
- Heritage to begin drum disposal activities.
- Residential wells groundwater sampling scheduled for mid-October.

**Signatures:** Leigh Albrecht

**Date:** October 3, 2001

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**Weekly Oversight Summary Report No. 27**  
**ACS Superfund Site WA30, 46526.238**

**Reporting Period:** Week of September 3, 2001

**BVSPC O/S Dates:** September 4 and 6, 2001 (Ms. Albrecht)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	7	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Koester Environmental Services	3	OFCA Temporary Cover Contractor
Midwest Environmental, Inc.	3	PCB Soils Excavation Contractor
Austgen Electrical	3	Electrical Contractor
Boart Longyear	8	ISVE Well Installation Contractor
Ryan Construction	2	Blower Shed Foundation Contractor
Slusser's	14	OFCA Seeding and Erosion Matting Contractor
Hertz	1	Rental Construction Equipment

**Construction Activities**

**Major Activities:**

- Koester Environmental Services completed OFCA cover.
- Slusser's seeded portions of OFCA cover and placed erosion matting.
- Midwest Environmental, Inc. excavated hot spot PCB-impacted areas in the wetland.
- Montgomery Watson Harza re-sampled wetland excavation.
- Boart Longyear installed 12 ISVE wells in OFCA.
- Ryan Construction poured OFCA blower shed concrete floor slab.
- Austgen began assembling power boxes and installing power pad mounting.
- Montgomery Watson Harza received 30-day extension of drum waste storage.
- Montgomery Watson Harza held the weekly construction coordination meeting.

**Activities Performed:**

Koester Environmental Services (KES) completed the OFCA clay cover and placed topsoil on the non-engineered cover areas on September 5, 2001. Slusser's tilled the topsoil and applied hydroseed. Slusser's was also contracted to install erosion matting on the interior swales and the crowns of Areas 1

and 3. KES was scheduled to demobilize from the site on September 7, 2001.

Midwest Environmental, Inc. (MEI) dewatered the wetland area to finish excavating the PCB-impacted soils. The water from the wetland area was pumped directly to the GWTP. MEI completed excavating three of the four areas initially identified as hot spots for PCBs. The fourth area was left in place for removal during pond excavation activities. Montgomery Watson Harza (MWH) received all of the confirmation sampling results from CompuChem. Based on these analytical results, seven additional areas required excavation. MEI excavated these additional areas, and the soils were stockpiled in the firepond area. MWH performed additional confirmation sampling and expects the results mid next week. MEI extended the depth of the drainage ditch in preparation for the pond excavation activities. Spoils from the drainage ditch excavation were placed on the eastern portion of the wetland area.

Boart Longyear (BLA) completed the installation of 12 ISVE wells in the northern portion of the OFCA. BLA decontaminated the auger flights prior to drilling on the northern portion of the OFCA. BLA used modified Level B PPE during the majority of drilling activities. PVC-coated Tyvek suits were used during well installation activities when product or liquids were encountered. Phosphorescent and fluorescent compounds were encountered during drilling activities. PID readings spiked at 2,000 ppm and the LEL ranged from 2% to 4%. Product was encountered at SVE-33 and was drummed for disposal. BLA continued to perform exclusion zone and perimeter air monitoring. An additional exclusion zone was constructed to include Chad Smith of MWH during soil characterization activities based on air monitoring results. Split spoon samples were taken from the bottom of the well installation at SVE-23 and SVE-18. The samples were placed on a table and covered with plastic sheeting. MWH took one Draeger tube sample for vinyl chloride and a second Draeger tube sample for benzene from the vapor zone between the split spoon samples and the plastic sheeting. Hits were detected for both compounds: 8 ppm of benzene and 0.5 ppm of vinyl chloride. BLA expects to finish ISVE well installation by September 14, 2001.

Ryan Construction (Ryan) poured the mud slab and installed framing for the OFCA blower shed concrete slab on September 5, 2001. Ryan poured the concrete for the blower shed slab on September 6, 2001. MWH took samples from each concrete truck and will test for compressive strength at 3, 14, and 28 days (required compressive strength = 5,000 psi at 28 days). MWH scheduled blower shed delivery for September 17 or 24, 2001, dependent upon the concrete curing time.

Austgen began assembling power boxes and installing the power pad mounting at Colfax Ave. Austgen drilled two holes in the ground for the power box at Colfax Ave. The driller was 40-hour trained; however, no PID readings were taken and Austgen only drilled into the clay cover.

MWH received the 30-day extension for the storage of the overpack drums and drum carcasses. MWH and IDEM discussed the potential for an additional 30 day extension. MWH discussed the disposal of the drum waste with Heritage Environmental Services, LLC (Heritage). MWH scheduled for Heritage to assess the wastes next week. MWH continued to inspect the overpack drums and rolloff boxes twice daily.

**Topics of Concern:**

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- Installation of the abandonment casing around ATMW-4D is suspect as to its effectiveness because the outer casing was driven in with the kelly bar and the auger chuck. Driving the casing down does not allow the tremmie pipe to reach the bottom of the annulus space on the outside of the casing for proper grouting.

**Concern Resolution:**

- None to report.

**Upcoming Activities:**

- MEI to begin pond excavation activities.
- BLA to complete ISVE well installation in OFCA.
- MWH to install OFCA blower shed either September 17 or 24, 2001.
- Austgen to install power boxes for OFCA.
- Heritage to assess drum wastes.
- MWH to perform third quarter groundwater sampling September 24, 25, and 26, 2001.
- MWH to sample residential wells in mid October.

Signatures: Leigh Albrecht

Date: September 10, 2001

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 6, 2001 MEETING  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 6, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**ATTENDEES:**

Robert Adams – MWH  
Travis Klingforth – MWH  
Todd Lewis – MWH  
Lee Orosz – MWH  
Tom Tinics - MWH  
Peter Vagt – MWH  
Kevin Adler – U.S. EPA (via phone)  
Sean Grady – IDEM (via phone)  
Leigh Albrecht – BVSPC  
Jeff Wickham – KES  
Jim Hawkins – KES  
Keith Laszewski – BLA  
Ken Field - MEI

**TOPICS**

**Health and Safety**

No health and safety incidents were reported this week. A new subcontractor, Slusser Company, arrived on site September 6, 2001 to install erosion matting and spread grass seed in the Off-Site Area. They are performing work under the direction of Koester Environmental Services (KES), and all Slusser workers participated in a full health and safety meeting led by MWH prior to beginning their work.

On September 5, 2001 Boart Longyear and Associates (BLA), the subcontractor installing the In-Situ Vapor Extraction (ISVE) wells in the Off-Site Area, upgraded from wearing lightweight Tyvek coveralls to wearing PVC-coated Tyvek coveralls. As planned, this upgrade was instituted upon encountering wetter material during the drilling process. Additionally, the size and orientation of the exclusion zone around the drilling activities has been altered as needed based upon wind direction and perimeter air monitoring results.

MWH personnel have observed tread marks from all-terrain vehicles (ATVs) and motorcycles in the wetland excavation area. These vehicles appear to have entered the site during off-hours from the railroad tracks north of the site. This incident will be reported to the local authorities by MWH.

### GWTP Status

The Perimeter Groundwater Collection System (PGCS) is currently the primary influent provider for the Groundwater Treatment Plant (GWTP). Extraction well EW-10 is also in use to control the water level in the On-Site Area. When the excavation of the pond in the wetland area begins, more groundwater will be dewatered from the wetland. Austgen Electric is in the process of installing new electrical and control systems for the BWES in the Off-Site Area.

### OFCA Cover Construction

KES has placed clay over the entire Off-Site Area, and all compaction/moisture testing requirements have been met. Topsoil and final grading was completed on September 5, 2001. KES will complete the berm at the north gate on September 6, 2001 by adding additional rip rap. Shusser Company, working for KES, began installing seed and erosion matting on September 6, 2001. KES plans to demobilize on September 7, 2001.

### ISVE Well Installation

As of the end of September 5, 2001, BLA has installed a total of 20 ISVE wells, twelve in the Kapica-Pazmey area and eight in the Off-Site Containment Area. BLA and MWH continue to perform air monitoring during the drilling work. PID meters have detected volatile at concentrations exceeding 2,000 parts per million (ppm) from split-spoon soil samples. Vinyl chloride has been detected at 0.5 ppm and benzene at 8 ppm from split spoon soil samples. BLA has encountered various debris and metal, especially around a depth of five feet below the ground surface, however every well has been placed successfully without refusal. BLA expects to complete their work by September 14, 2001.

### PCB Soils Excavation

Eight of the 42 confirmation samples sent to Compuchem Laboratories contained concentrations exceeding the cleanup objective of 1 ppm. Three of these locations were further excavated by Midwest Environmental, Inc. (MEI) and resampled by MWH on August 31, 2001. The remaining five locations will be further excavated and resampled on September 6, 2001. Upon receiving results from Compuchem which indicate that concentrations are below 1 ppm, the construction of the pond will begin. Until then, the existing trench will be deepened to aid in dewatering and excavation. Areas meeting the remediation requirements may proceed.

### Blower Shed #1 Installation

MWH installed the transition piping for the Blower Shed pad in accordance with the design memo. Ryan Construction placed the forms to install the blower shed pad on September 5, 2001 and will pour the concrete pad on September 6, 2001. During the concrete installation, three cylinder samples of concrete will be collected. These will be tested for compression by Great Lakes Soils and Environmental after 3, 14, and 24 days.

The pre-fabricated blower shed will be delivered during the week of September 17 or 24, 2001, after the concrete coating is placed on the pad.

Off-Site Utility Work

Austgen Electric is assembling power boxes to be installed at each Off-Site Area extraction well and to power Blower Shed #1.

Drum Removal

MWH is still gathering audit information and discussing disposal options with the PRP Group. Heritage Environmental will assess the material excavated during the drum removal and submit a proposal during the week of September 10, 2001. The overpacked drums and roll-off boxes continued to be regularly monitoring with a PID meter. MWH has requested a time extension from the state of Indiana for the disposal of this material.

Next Weekly Construction Meeting

- Thursday, September 13, 2001

TMK/TAL



**Weekly Oversight Summary Report No. 28**  
**ACS Superfund Site WA30, 46526.238**

**Reporting Period:** Week of September 10, 2001

**BVSPC O/S Dates:** September 11 and 13, 2001 (Ms. Albrecht)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	7	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Midwest Environmental, Inc.	5	PCB Soils Excavation Contractor
Austgen Electrical	1	Electrical Contractor
Boart Longyear	9	ISVE Well Installation Contractor
Slusser's	5	OFCA Seeding and Erosion Matting Contractor
Security Fencing	1	Silt Fence Contractor
Heritage Environmental Services, LLC	2	Potential Drum Waste Disposal Contractor

**Construction Activities**

**Major Activities:**

- Boart Longyear completed the installation of 42 ISVE wells and 3 air sparge points in OFCA.
- Montgomery Watson Harza determined the locations of the OFCA replacement piezometers.
- Slusser's completed laying erosion matting and hydroseeding the OFCA.
- Midwest Environmental, Inc. installed the temporary road into the wetlands and began pond excavation activities.
- Austgen installed power boxes at the OFCA extraction wells.
- Heritage Environmental Services, LLC assessed the drum wastes on the ONCA.
- Montgomery Watson Harza held the weekly construction coordination meeting.

**Activities Performed:**

Boart Longyear (BLA) completed the installation of the 42 ISVE wells in the OFCA. All of the wells except for SVE-13 were installed at the design location and depth. SVE-13 was installed to its design depth; however, it was relocated approximately 10 feet north of its design location due to the location of

the blower shed. BLA also installed three air sparge points on the northern portion of the OFCA. According to Travis Klingforth of Montgomery Watson Harza (MWH), a blue-black product was encountered on the auger flights in SVE-15. Mr. Klingforth took vinyl chloride and benzene Draeger tube samples and PID readings from the split spoon sample taken at the well depth of 20 feet below ground surface at SVE-15. Neither vinyl chloride nor benzene were detected with the Draeger tubes; however, the PID readings spiked at approximately 2,000 ppm.

*Xylene + Toluene? PAINT?*

BLA knocked over the 5-foot-long well riser at SVE-36. The well riser broke from the well at the coupling between risers at the ground surface. MWH did not believe there to be any damage to the well. BLA will be reinstalling the riser by welding a collar around the displaced 5-foot-long riser and the 10-foot-long riser that remained attached to the well. MWH and Mike Magnin from BLA walked the site to determine the location of the replacement piezometers for the OFCA. MWH extended BLA's contract to include the installation of piezometers during the week of September 17, 2001.

Slusser's completed the installation of the erosion matting and hydroseeding of the OFCA. Erosion matting was extended to cover the slopes of Areas 1 and 3, located near interior swales 4 and 5.

Midwest Environmental, Inc. (MEI) finished excavating the hot spot areas of PCB concentrations greater than 1 ppm in the wetland area. The remaining area with PCBs greater than 1 ppm is located near the GWTP near the eastern portion of the wetland. MEI intends to excavate this remaining spot after pond excavation activities are completed. MEI removed the piles of previously excavated materials from the wetland area and placed them in the firepond area. The firepond area was regraded by MEI, and the separation of soils excavated from areas of greater than 50 ppm PCBs and less than 50 ppm PCBs was maintained. MEI reinstalled the temporary road into the wetlands over a geotextile. MEI began pond excavation activities on September 13, 2001, and expects to be finished by September 28, 2001. The soils from the pond excavation activities are being stockpiled on the eastern portion of the OFCA near Colfax Ave. for future use as root zone material in the final cap.

Austgen continued to install power boxes at the extraction wells located in the OFCA.

Heritage Environmental Services, LLC visited the site to assess the drum waste. Tom Tinics from MWH reported that the overpack drum waste could be disposed of in its current state based on the Hazcat analysis and that the drum carcasses in the rolloff boxes would be sorted on the drum storage pad and segregated for disposal. MWH anticipated having a disposal site selected by the end of the week.

MWH was investigating additional sealants for the blower shed slab that could be applied to "green" concrete in order to move the blower shed installation to either the week of September 17 or 24, 2001. This installation date requires a shorter concrete cure time than 28-days for the currently selected sealant.

MWH reported that the GWTP continued to operate well and was discharging approximately 55 gpm. The GWTP continued to treat water from the wetland excavation.

MWH continued to perform weekly Health and Safety meetings and to monitor the rolloff boxes containing

drum wastes twice daily.

**Topics of Concern:**

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- Installation of the abandonment casing around ATMW-4D is suspect as to its effectiveness because the outer casing was driven in with the kelly bar and the auger chuck. Driving the casing down does not allow the tremmie pipe to reach the bottom of the annulus space on the outside of the casing for proper grouting.

**Concern Resolution:**

- None to report.

**Upcoming Activities:**

- MEI to continue pond excavation activities.
- BLA to complete piezometer installation in and around the OFCA.
- MWH to install the OFCA blower shed either September 17 or 24, 2001.
- MWH to perform third quarter groundwater sampling September 24, 25, and 26, 2001.
- MWH to sample residential wells in mid October.

Signatures: Leigh Albrecht

Date: September 17, 2001

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 13, 2001 MEETING NOTES  
AMERICAN CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 13, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**ATTENDEES:** Robert Adams– MWH  
 Todd Lewis - MWH  
 Travis Klingforth – MWH  
 Lee Orosz – MWH  
 Tom Tinics - MWH  
 Peter Vagt - MWH  
 Kevin Adler – U.S. EPA (via phone)  
 Sean Grady – IDEM (via phone)  
 Leigh Albrecht – BVSPC  
 Ken Field – MEI  
 Michael Magnin – BLA

**TOPICS:**

**Health and Safety**

No health and safety issues occurred this week. MWH has ordered and will install signs warning of overhead and underground power lines for the site. The last day of scheduled Level B work for Boart Longyear & Associates' (BLA) ISVE well installation work is September 13, 2001. On September 11, 2001, all contractors on site participated in the regular health and safety summary meeting conducted by MWH.

**Groundwater Treatment Plant (GWTP) Status**

The GWTP continues to operate properly. The surge capacity of the GWTP has been increased in order to accommodate increased dewatering from the wetlands during the construction of the pond.

**Off-Site Area Cover Construction**

The Off-Site Area interim cover is substantially complete. Topsoil and seed has been placed in all non-engineered cover areas. One exception is the eastern edge of the site where material will be stockpiled from the construction of the pond in the wetland area. Koester Environmental Services (KES) completed their work and demobilized September 7, 2001. Approximately 50% of the erosion matting has been placed by Slusser Company, and more will be installed September 13, 2001.

### In-Situ Vapor Extraction/Air Sparge Well Installation

BLA completed the 42 ISVE wells in the Kapica-Pazmey and Off-Site Containment Area on September 12, 2001. BLA anticipates completing all three Air Sparge wells on September 13, 2001. All wells were installed as shown on design drawings with the exception of SVE-13, which was moved approximately 10 feet north to accommodate the many pipe runs leaving the Blower Shed.

All cuttings generated from the drilling activities have been placed in a roll-off box for later disposal or replacement under the cover.

### Piezometer Replacement in Off-Site Area

Beginning September 17, 2001 BLA will install piezometers in the Off-Site Area to replace those removed or damaged during the interim cap installation. The locations of these piezometers will be determined on September 13, 2001 during a site walk with MWH, BVSPC, and BLA. A sketch summarizing the decisions made will be sent to the Agencies. The well installation work will be conducted in Level C personal protective equipment (PPE) and may be upgraded or downgraded based upon air monitoring results.

### PCB Soils Excavation

The first round of confirmation samples collected for Compuchem indicated that 34 of the 42 locations sampled met the cleanup objective of 1 part per million (ppm). The additional eight areas were further excavated on August 31, September 6 - 7, and 10 - 11, 2001 by Midwest Environmental, Inc. (MEI). MWH collected additional confirmation samples after further excavation. Six of these re-samples met the cleanup objective. The remaining two areas which need to be further excavated are located under the gravel road bed leading to the GWTP. In order to facilitate truck traffic during pond construction, MWH has decided to wait until the pond is completed to further excavate and resample this area, which will not be part of the completed pond.

The wetland restoration process of excavating open water began on September 12, 2001. The temporary road panels, which have all been decontaminated, were reinstalled to aid in the excavation process. MEI anticipates completing the excavation by September 21, 2001, weather permitting.

Area Survey completed their survey of the final extents of the PCB-impacted soil excavation on September 13, 2001. Excavated material removed during the pond construction will be stockpiled in the Off-Site Area along Colfax Avenue. Security Fence Company will place a silt fence around the stockpiles beginning September 14, 2001.

The three existing GWTP discharge structures, located in the wetlands north of the excavation area, will continue to be used once the pond has been constructed.

### Blower Shed Installation

The Blower Shed Pad has been installed. A protective coating will be applied during the week of September 17, 2001. The Blower Shed will be installed after the protective coating is in place.

Underground piping will be installed from the Blower Shed to each ISVE well location. The piping will primarily be placed in the clay cap layer, but may extend below the clay cap as needed to maintain the proper elevation and slope. A subcontractor has not yet been selected to perform this work.

Off-Site Utility Work

Northern Indiana Power Supply Company (NIPSCO) will be installing a permanent power pole along Colfax Avenue to service the Blower Shed in the Off-Site Area. NIPSCO has conducted a utility locate for the pole, which will be placed in the utilities easement along Colfax. Aerial lines will be installed between the NIPSCO pole and control box which Austgen Electric has installed inside the Off-Site Area fence.

Drum Removal

The PRP group will meet with MWH on September 14, 2001 via conference call to discuss the three disposal facilities being considered: LWD (Kentucky), WTI (Ohio), and Ross Incineration (Ohio). John Crawford of the State of Indiana says that an additional time extension cannot be granted, however the state can be flexible once the PRP group has selected a disposal facility and establish a schedule for moving the waste off site for incineration.

Next Weekly Construction Meeting

- Thursday, September 20, 2001

TMK/RAA/PJV/TAL

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**Weekly Oversight Summary Report No. 29**  
**ACS Superfund Site WA30, 46526.238**

**Reporting Period:** Week of September 17, 2001

**BVSPC O/S Dates:** September 19 and 20, 2001 (Ms. Albrecht)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	7	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Midwest Environmental, Inc.	3	PCB Soils Excavation Contractor
Boart Longyear	9	ISVE Well Installation Contractor
US Floor	2	Concrete Sealant Contractor

**Construction Activities**

**Major Activities:**

- Boart Longyear completed the installation of 10 piezometers in and around the OFCA.
- Midwest Environmental, Inc. continued pond excavation activities.
- US Floor placed the sealant for the OFCA blower shed concrete slab.
- Montgomery Watson Harza held the weekly construction coordination meeting.

**Activities Performed:**

Boart Longyear (BLA) completed the installation of 10 replacement piezometers in and around the OFCA. BLA repaired SVE-36 by placing a stainless steel collar between the two risers. BLA decontaminated its equipment on the drum storage pad and demobilized from the site on September 19, 2001.

Midwest Environmental, Inc. (MEI) continued pond excavation activities. The westernmost portion of the pond was graded and excavated to its design depth. Ken Field from MEI reported that approximately 3,000 CY of material was removed from the wetland area and stockpiled on the OFCA. Ken Field also reported that Security Fencing installed the silt fencing around the wetland material at the end of last week. Due to rainy weather, the pond excavation activities were suspended for September 19 and 20, 2001, and only grading activities took place. MEI expects to have completed the pond by mid next week.

After the rain, a portion of the clay cover located on the eastern portion of the OFCA near Colfax Ave. washed into swale 3. In addition, standing water was observed at the intersection of swale 2 and swale 4 near EW-20C. MWH reported that an Austgen driver had created depressions in the cover from his wheels, causing the ponding water at the swale intersection. Grass was growing on the non-engineered

areas of the OFCA.

US Floor installed the sealant on the concrete OFCA blower shed slab. US Floor utilized a 10% muratic acid solution to etch the concrete. Initially, the employees were not wearing protective equipment; however, when BVSPC asked whether any safety equipment was required, they put on gloves and safety glasses. Montgomery Watson Harza (MWH) was notified of the situation immediately. MWH scheduled the blower shed installation for September 25, 2001.

MWH reported that the GWTP continued to operate well and was discharging approximately 55 gpm. The GWTP continued to treat water from the wetland excavation in addition to extraction wells EW-10 (ONCA) and EW-11 (OFCA). MWH also continued to pump from MW-56, the replacement well of ATMW-4D, at a rate of 1 gpm. They have been pumping from this well since June 6, 2001, and are taking samples for benzene to determine whether the benzene detected in the lower aquifer is from leaking around the casing of ATMW-4D or a separate source.

MWH hosted a group of delegates from Taiwan on September 19, 2001. MWH conducted a tour of the GWTP and presented the history of site activities.

MWH continued to monitor the rolloff boxes containing drum wastes twice daily and will be moving the rolloff box that contains drill cuttings in the OFCA to the drum waste storage area for future disposal.

**Topics of Concern:**

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- Installation of the abandonment casing around ATMW-4D is suspect as to its effectiveness because the outer casing was driven in with the kelly bar and the auger chuck. Driving the casing down does not allow the tremmie pipe to reach the bottom of the annulus space on the outside of the casing for proper grouting.

**Concern Resolution:**

- None to report.

**Upcoming Activities:**

- MEI to complete pond excavation activities.
- Koester Environmental Services to install additional erosion matting on the OFCA.
- MWH to install the OFCA blower shed on September 25, 2001.
- MWH to perform third quarter groundwater sampling on September 25, and 26, 2001.
- MWH to sample residential wells in mid October.

Signatures: Leigh Albrecht

Date: September 24, 2001

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 20, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 20, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**ATTENDEES:**

Rob Adams – MWH  
Chris Daly – MWH  
Travis Klingforth – MWH  
Todd Lewis - MWH  
Lee Orosz – MWH  
Chad Smith - MWH  
Tom Tinics – MWH  
Peter Vagt – MWH (via phone)  
Kevin Adler – U.S. EPA (via phone)  
Sean Grady – IDEM (via phone)  
Leigh Albrecht - BVSPC  
Ken Field – MEI

**TOPICS**

Health and Safety

No health and safety issues have arisen in the past week. MWH conducted a periodic Corporate Health and Safety Review on September 14, 2001. No deficiencies were noted.

Signs are being placed throughout the site with warnings such as “No Trespassing,” “No Hunting or Fishing,” and “Warning: Underground Cables.” Truck traffic between the wetland area and the Off-Site Area has been proceeding safely and smoothly since construction of the wetland pond began.

The Griffith police have been contacted regarding the All-Terrain Vehicle (ATV) tracks discovered in the wetland area earlier this month. MWH personnel have completed an incident report. On September 18, 2001, an employee of MWH-subcontractor Midwest Environmental, Inc. (MEI) discovered a tree stand used for hunting located approximately 30 feet behind the MWH office trailer. The evidence suggests it has been there for quite a while. It was removed, and reported to the Griffith police. On September 19, 2001, the Griffith police were given a key to the front gate of the site and a site tour during daylight hours to facilitate any nighttime inspections that they may have to make. They will regularly monitor the site and have been given MWH contact information in case any trespassing is discovered.

MWH personnel will wear orange safety vests during the September 2001 round of groundwater sampling for increased protection during hunting season.

#### Groundwater Treatment Plant (GWTP) Status

The GWTP is currently receiving the majority of its influent from the wetland area. It is also receiving influent from extraction well EW-10 in the On-Site Area and EW-11 in the Off-Site Area. In addition the replacement well for ATMW-4D (MW-56) has been pumped at one gallon per minute (gpm) to the GWTP since June 6, 2001.

#### Off-Site Area Interim Cover Construction

Construction of the Off-Site Area Interim Cover is substantially complete. Slusser Company will place the remaining 5,000 square feet of erosion matting during the week of September 24, 2001. Completion documentation is expected from Koester Environmental Services (KES) in October 2001.

MEI began construction of an erosion mat lined gravel road from the south gate on Colfax Avenue to the Blower Shed on September 18, 2001.

This item removed will be removed from future agendas.

#### In-Situ Vapor Extraction (ISVE) Well Installation and Piezometer Replacement

Boart Longyear & Associates (BLA) completed the construction of the 12 ISVE wells in the Kapica-Pazmey (K-P) area and the 30 ISVE wells in the Off-Site Containment Area (OFCA) on September 12, 2001, as reported in last week's meeting. They completed the three Air Sparge wells for the ISVE system on September 13, 2001. The wells were installed as designed and have been capped approximately five feet above the ground. One ISVE well in the OFCA area was hit by a BLA vehicle after it was installed. It broke off cleanly at the weld point a few inches above ground level. It was repaired using a specially-designed coupling. All drilling work for the ISVE system was conducted in Level B personal protective equipment (PPE).

BLA also installed ten piezometers in the Off-Site Area on September 16 and 17, 2001 to replace the piezometers removed or damaged during the installation of the Off-Site Cover. This work was begun in Level C PPE, and downgraded to Level D PPE due to air monitoring results. Two original piezometers remain in the Off-Site Area, P-95 and P-96. MWH personnel have extended the piezometer P-95, constructed of PVC, to a height of three feet above the ground surface. It extended only inches above the ground surface following placement of the clay cover.

Completion documentation will be sent to MWH by BLA during October 2001. The roll-off box used to store soil cuttings from the drilling activities will be moved to the On-Site Area for temporary storage. MWH will arrange to have the ISVE wells and piezometers surveyed during October 2001. This item removed will be removed from future agendas.

MWH has begun gathering bids for the installation of the yard piping to connect ISVE wells to the Blower Shed.

#### PCB Soils Excavation

Pond construction is approximately 65%-70% complete. MEI has created a few mounds of overburden soil around the perimeter of the excavation as requested by IDEM.

Approximately two more days of pond excavation remain as of September 20, 2001. The eastern portion of the excavation, which will not be part of the pond, will be restored to original grade.

MWH will explore the possibility of creating a small sump area near the stormwater outfall point of the ACS facility to prevent direct discharge into the pond, but continue to recharge the upper aquifer.

IDEM has requested that MWH examine the historical water levels in the wetland area. IDEM suggests that a portion of the GWTP effluent may need to be discharged directly into the pond to prevent a large annual water level fluctuation in the pond that may promote cattail return to the area.

#### Blower Shed Installation

A coating will be placed on the blower pad September 20, 2001. A crane is scheduled to place the blower shed on the blower pad on September 25, 2001. Austgen Electric will install the motor control center (MCC) for the ISVE system in mid-October.

#### Off-Site Utility Work

The Northern Indiana Power Supply Company (NIPSCO) installed a new power line along Colfax Avenue during the week of September 17, 2001. It is ready for Austgen to connect the pole to the control box just inside the Off-Site Area fence.

#### Drum Removal

A conference call was held between the PRP group and MWH on September 14, 2001 regarding disposal options for the material excavated from the On-Site Area in May 2001. Two of the disposal companies being considered are not likely to be chosen: LWD and Ross Incineration. WTI/Heritage is the probable choice for incineration. U.S. EPA and IDEM have approved the selection.

#### Next Weekly Construction Meeting

- Thursday, September 27, 2001

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**Weekly Oversight Summary Report No. 30**  
**ACS Superfund Site WA30, 46526.238**

**Reporting Period:** Week of September 24, 2001

**BVSPC O/S Dates:** September 25 and 27, 2001 (Ms. Albrecht)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	7	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Midwest Environmental, Inc.	3	PCB Soils Excavation Contractor
Fliteway	1	OFCA Blower Shed Contractor
Maxim	2	Crane Operator

### **Construction Activities**

#### **Major Activities:**

- Midwest Environmental, Inc. completed pond excavation activities.
- Montgomery Watson Harza installed the OFCA blower shed onto the sealed concrete slab.
- Montgomery Watson Harza completed the limited September groundwater sampling event.
- Montgomery Watson Harza recommended to the PRP Group selecting Heritage Environmental Services, LLC as the drum disposal contractor.
- Montgomery Watson Harza held the weekly construction coordination meeting.

#### **Activities Performed:**

Midwest Environmental, Inc. (MEI) completed excavation activities for the pond. All of the soils excavated from the wetland area were stockpiled on the eastern portion of the OFCA near Colfax Ave. for future use as root zone material in the final cap. A swale was constructed at the north portion of the pond near the GWTP surface discharge location 1. The swale consists of a geotextile underneath concrete pieces containing rebar. MEI rinsed off the temporary road sections after removing the road. MEI planned to construct a swale from the ACS discharge point, along the gravel road west of the GWTP to the wetland area located to the north of the pond. MEI removed the remaining hot spot area that exceeded 1 ppm of PCBs. This material was transported to the ACS ONCA firepond area. Montgomery Watson Harza (MWH) took two samples from the excavation for analysis by CompuChem. MWH also composited five samples from the excavated materials for PCB analysis by CompuChem.

Maxim, MWH, and Fliteway installed the OFCA blower shed onto the concrete slab on September 25, 2001. The oxidizer is scheduled for delivery in November. MWH has contracted with Austgen to install

the permanent power supply to the OFCA blower shed and the motor control center.

MWH ceased pumping from the wetlands and discharging to the area south of the railroad tracks. MWH resumed discharging to the wetlands through the three drainage structures. MWH continued to pump from monitoring well MW56 and extraction wells EW11 and EW10. MWH began pumping from OFCA extraction wells EW19, EW 20B, and EW20C.

MWH conducted the limited quarterly groundwater monitoring well sampling activities for indicator parameters on September 25, 2001. Monitoring wells MW9R, MW56, MW10C, MW48 and MW49 were sampled for VOCs. MW48, MW49, MW9R, and MW56 were sampled for arsenic and lead. All groundwater samples were sent to CompuChem for analysis. MWH also took water level samples at the remaining piezometers, staff gauges and monitoring wells (except MW56). MWH sampled the South Area Pilot Study ORC wells on September 26, 2001, for VOCs. These samples were also sent to CompuChem for analysis.

MWH issued the Request for Bids for the ISVE well yard piping on September 18, 2001. MWH plans to award this contract soon. Heritage Environmental Services, LLC (Heritage) was recommended to the PRP Group by MWH for the drum waste removal. A contract for this work is expected to be signed this week. Drum removal activities are scheduled to commence in two weeks.

MWH continued to monitor the rolloff boxes containing drum wastes twice daily and will be moving the rolloff box that contains drill cuttings in the OFCA to the drum waste storage area for future disposal.

**Topics of Concern:**

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- Installation of the abandonment casing around ATMW-4D is suspect as to its effectiveness because the outer casing was driven in with the kelly bar and the auger chuck. Driving the casing down does not allow the tremmie pipe to reach the bottom of the annulus space on the outside of the casing for proper grouting.

**Concern Resolution:**

- None to report.

**Upcoming Activities:**

- MEI to construct swale from ACS discharge to northern portion of the wetlands.
- Heritage to remove drum waste.
- MWH to award contract for ISVE well yard piping installation.
- Austgen to install permanent power to the OFCA blower shed.
- MWH to sample residential wells in mid October.

Signatures: Leigh Albrecht

Date: October 1, 2001

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**WEEKLY CONSTRUCTION MEETING MINUTES  
FOR SEPTEMBER 27, 2001 MEETING  
AMERICAL CHEMICAL SERVICES NPL SITE**

**MEETING DATE:** September 27, 2001

**MEETING TIME:** 10:00 AM

**MEETING LOCATION:** ACS Site – Site Trailer

**ATTENDEES:**

Rob Adams – MWH  
Vivek Agrawal - MWH  
Chris Daly – MWH  
Travis Klingforth – MWH  
Todd Lewis - MWH  
Lee Orosz – MWH  
Tom Tinics – MWH  
Sean Grady – IDEM (via phone)  
Leigh Albrecht – BVSPC  
Larry Campbell – BVSPC (via phone)  
Ken Field – MEI

**TOPICS**

Health and Safety

No health and safety issues have arisen in the past week. Signs continue to be placed throughout the site with the following warnings: "No Trespassing," "No Hunting or Fishing," and "Warning: Underground Cables." Midwest Environmental, Inc. (MEI) is the only subcontractor currently performing work on site.

Groundwater Treatment Plant (GWTP) Status

The GWTP is no longer receiving influent from the wetland excavation because the wetland excavation is no longer being dewatered. The GWTP is currently receiving influent from extraction well EW-10 in the On-Site Area and EW-11, EW-19, EW-20B, and EW-20C in the Off-Site Area.

The GWTP resumed normal discharge to the wetland area via the existing three wetland discharge structures on September 25, 2001.

Groundwater Sampling and Annual Sampling of Residential Wells

MWH performed the September 2001 groundwater sampling round on September 25, 2001. Water levels were measured for all piezometers and monitoring wells currently part of the long-term groundwater monitoring plan. Five monitoring wells were sampled as part of the long-term groundwater monitoring plan: MW-9R, MW-10C, MW-48, MW-49, and MW-56.

The annual residential well monitoring will be conducted during October 2001, per the letter sent by MWH to the Agencies on September 17, 2001. In accordance with the letter, the sampling will proceed for five residential wells unless the U.S. EPA requests a change by October 1, 2001. The sampling is tentatively scheduled for the week of October 15, 2001.

#### Oxygen Releasing Compound (ORC<sup>®</sup>) Sampling

MWH performed sampling Round 5 of the ORC<sup>®</sup> South Area Pilot Study on September 26, 2001 in conjunction with the standard groundwater monitoring. Analytical results will be included in a future monthly status report. The final sampling round of the pilot study, Round 6, will be conducted during November 2001. There will be no ORC<sup>®</sup> sampling during October 2001.

#### PCB Soils Excavation

The wetland restoration activity, excavating the pond, was completed on September 24, 2001. MEI continues to clean road panels and equipment. They will also construct a drainage swale to direct stormwater runoff from the ACS facility away from the pond and toward the northern portion of the wetland area.

The final PCB-impacted soil was excavated from under the gravel road near the GWTP on September 25, 2001. The final confirmation excavation samples were collected from sampling locations 37 and 42 on September 26, 2001. Analytical results are expected prior to the next weekly construction meeting.

IDEM has suggested that MWH seed the pathway from the GWTP to the pond with prairie grasses.

#### Blower Shed Installation

A coating was placed on the blower pad September 20, 2001. A crane placed the blower shed on the blower pad on September 25, 2001.

Austgen Electric will install the motor control center (MCC) for the In-Situ Vapor Extraction (ISVE) system in mid-October. Prospective bidders are currently reviewing the Request for Bid (RFB) to install the yard piping which will connect the ISVE wells and the blower shed. Delivery of the custom-built oxidizer unit for vapor treatment has been postponed until mid-December 2001 due to manufacturing delays.

#### Off-Site Utility Work

The Northern Indiana Power Supply Company (NIPSCO) installed a new power line along Colfax Avenue during the week of September 17, 2001. It is ready for Austgen to connect the pole to the control box just inside the Off-Site Area fence. This item will be removed from next week's meeting agenda.

#### Drum Removal

WTI/Heritage has been selected as the incineration vendor for the excavated drum material. After the contract is signed with WTI/Heritage, MWH will send out a memo to the Agencies and PRP group prior to any actions taking place. The memo will detail the disposal plan and scheduled to be followed. IDEM doesn't foresee a need to conduct any additional characterization of the overpacked drums prior to disposal, but will confirm

this upon receipt of the drum disposal plan memo. U.S. EPA will also decide if they will require additional characterization prior to disposal.

Next Weekly Construction Meeting

- Thursday, October 4, 2001

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(76)

9/30/01 *High School*

lines direct bury ~ 12" below surface, all  
still in clay layer. tilled and compacted  
trench. In process of installing power boxes  
at each extraction well.

Next Meeting: September 7, 2001

- 1130 Mtg adjourn  
1210 Spoke with T. Timics - monitors drum rolloffs  
twice daily. No hits as of yet.  
1230 Leave site for lunch  
1300 Return to site  
1315 BLA moved spoil piles to lined. Stopped roll off  
1320 Roll 14 Picture 3 Facing west. Photo of  
piping at the blower shed on OFCA.  
1350 BLA danned modified level B PPE to drill  
remaining 2 K-PAREA SVE wells 11+10  
1355 Spoke with C. Smith regarding spoils roll off. He  
will include roll off area in his air monitoring.  
1703 SVE-10 well installation was removed.  
damage to screen, riser ok. BLA to  
reinstall.  
1544 Left site for day

*High School*  
9/30/01

(77)

9/4/01 *High School*

1200 Arrive on site Warm, ~ 75-80°F, clear,  
~~light breeze from~~ wind from northeast

Personnel on-site

Lee Cross MWH

Ken Field MEI

Ed Williams KES

Louis Marshall MEI

Chad Smith MWH

Tom Timics MWH

Alan Thomas BLA

Roy Wilkins BLA

Steve Field MEI

Todd Lewis MWH

John Cook BLA

Hugh Albrecht BYSPC

1210 Spoke with C. Smith (MWH) K-P area complete  
no drilling on 8/31/01 due to weather. Decontam  
equip to start on N side of OFCA

1230 Walked OFCA, observed KES grading and compacting  
with drum roller north part of OFCA in Swale 4.

KES importing top soil to northern OFCA

1240 Roll 14 Photo 4 Facing North, Truck depositing load  
of top soil, drum roller in background at Swale 4.

1250 Roll 14 Photo 5 Facing West. Dewatered  
wetland area, excavated areas of handling

*High School*

(78)

7/4/01

J. S. Galt

- 1250 PCB concentrations > 1 ppm from initial excavation spoke with K. Field. MEI re-excavated in 3 of 4 areas where PCBs > 1 ppm. Remaining area is in western portion and will be excavated during pond construction. Wetland sufficiently denatured to start construction of temporary road and excavate for pond. waiting for OK from MWH.
- 1320 Spoke with T. Trices. 1 area left with PCBs > 1 will be removed w/ excavation. Confirmation samples sent to both Compuserch + Sonotek. Received 24 hr TAT with OK results < 1 ppm. KES re compacting around wells since electrical installed w/ sumping jack. KES grading swale 4. MEI finished work + detritus.
- 1345 BLA mobilizing to begin drilling on N portion of OFCA. starting w/ SVE 40 and SVE 27.
- 1415 Ryan Construction working on gravel subgrade for OFCA blowershed material today, concrete Wed.
- 1420 Roll 14 Photo 6 Facing South Ryan Construction pouring CA-6 gravel into blowershed foundation.
- 1450 Observed MEI grading at the East end of wetlands. BLA decreasing auger flights immediately west of GWTP. Spoke w/ K. Field hope to get temporary road installed by Thursday. Start excavating Friday 7/7/01.

J. S. Galt

(79)

9/4/01

J. S. Galt

- 1450 Roll 14 Photo 7. Facing North Photo of BLA decreasing auger flights on concrete pad located immediately west of GWTP.
- 1455 Roll 14 Photo 8. Facing South Photo of MEI re-grading west <sup>of</sup> east end of wetland.
- 1505 BLA to drill SVE 40 (15 ft depth) and SVE 27 (20 ft depth) - 10' screens on both.
- 1540 BLA began drilling SVE 27 and SVE 40. Driller in modified level B Assistant in Truck - level B.
- 1555 Roll 14 Photo 89 Facing South Photo of BLA drilling SVE 27 and placing spoils on plastic tarp.
- 1600 Observed BLA performing second round of perimeter air monitoring 10 hits on PID, however a varnish odor was noted southwest of SVE 27.
- 1615 Observed KES placing topsoil at Swales 3 + 1 intersection to establish high point.
- 1620 left site for day

9/4/01  
J. S. Galt

(80)

2/6/01 *Jeff Ellman*

- 0650 Arrive on site. Partly Cloudy forecast for 80°F, light wind from SE
- 0655 Spoke w/C. Smith (MWH) He reported that BLA drilled 6 wells on 9/5/01.
- Tool box H+S meeting. SE winds. Need to move outtings today before rain.
- Note concrete pour at blower shed. Potential for needing truck. stay clear of any contaminants. Reminder of no smoking policy.
- 0705 Conclusion of H+S mtg.
- 0710 Observed MEI constructing temporary road into wetland area.
- 0725 L. Owsz reported that Ryan poured the mold slab on Wed. and formed after concrete hardened.
- 0730 Roll 14 Photo 10. Facing Southeast.
- Photo of Ryan construction installing the "embedment" extrusion plate on wood form prior to concrete pour for OFCA blower shed.
- 0735 Roll 14 Photo 11. Facing Southeast.
- Photo of concrete pour for OFCA blower shed. NW corner of shed around pipes. SVE
- L. Owsz stated that the concrete is 28-day but MWH taking samples to test for 5000 psi and may require less than 28 days.

*Jeff Ellman*

(81)

2/6/01

*Jeff Ellman*

- 0845 Roll 14 Photo 12. Facing Northwest. Photo of C. Smith of MWH characterizing sample. SVE 23-18 20 foot depth.
- 0855 C. Smith took Dragon tubes for benzene and VC. Hits of ~Bp for benzene and O. Spm VC from bottom of well samples.
- 0945 Personnel On Site
- |                   |         |                     |           |
|-------------------|---------|---------------------|-----------|
| * Lee Owsz        | MWH     | Dave Hinkel         | Ryan      |
| Ed William        | KES     | Ryan Fischer        | BLA       |
| Brian Luecker     | Austgen | Jay Kovitz          | BLA       |
| Tom Richardson    | "       | Louis Marshall      | MEI       |
| Gary Alexander    | "       | * Travis Klingforth | MWH       |
| * Jeff Wickham    | KES     | * Tom Tines         | MWH       |
| * Jim Hawkins     | KES     | * Rob Adams         | MWH       |
| * Keith Laszewski | BLA     | Bill Juhl           | Slosser's |
| * Ken Feld        | MEI     | Don Stenot          | "         |
| Chad Smith        | MWH     | Scott Devault       | "         |
| John Gork         | BLA     | Alfred Espinoza     | "         |
| Alan Thomas       | BLA     | Fernando Villafana  | "         |
| Roy Atkins        | BLA     | Guadalupe Hernandez | "         |
| David Morris      | BLA     | Jorge De La Rosa    | "         |
| Norm Berthold     | BLA     | Richard Pearson     | "         |
| Gene Gines        | MEI     | Gabriel Haces       | "         |
| Jerry Spurgeon    | Ryan    | Arvon D'or          | "         |
| * Leigh Albrecht  | BYSPC   | Michael Pope        | "         |

(82)

9/6/01 *Lydia Hunt*

Personnel cont'd \* Todd Lewis MWH  
 Leaghan Heavne Slusser's Laura Romler Hertz  
 Dave Caster " Pete Vagt - MWH  
 Roberto Martinez

0955 Temporary road removed from wetland. R. Adams  
 reported that samples from Compuchem  
 came back > 1 ppm. Need to excavate more.

1000 Construction Mtg.

Attendees on previous list - \*  
 plus S. Grady (IDEM) and K. Adler (EPA)  
 via. conference call.

Health & Safety: Notice from temporary  
 power line incident being reviewed by  
 MWH. Ordered additional signs for trespassing  
 construction site etc. since observation of  
 ATV tracks in wetland. Slusser rec'd on-site  
 H&S meeting 9/6/01. Comment on BLA bringing  
 supplies on site w/o glasses & hard hats.  
 BLA extended exclusion zone to include  
 c. Smith. Putting on PVC coated tyvek for  
 sloppy holes.

GWTP: pumping from PGCS at 35 gpm. To  
 pump more from wetlands if storm. Have  
 large capacity in bio tank.

DECA: finished topsoil and grading 9/5  
*Lydia Hunt*

(83)

9/6/01

*Lydia Hunt*

Reconstruct berm at N gate. Installing erosion  
 matting and hydrosceding (Slusser) by 9/7/01  
 Erosion fabric to be placed on crowns of Area 1 + 3  
 Hay bales at end of swale 5 to slow water.

ISVE: Encountered fluorescent/phosphorescent  
 chemicals. PID > 3000 ppm, LEL 2-4%.

Benzene 5 ppm VL none at borehole.

Running into voids in boreholes. Upgrade to PVC  
 coated tyvek when necessary. To be complete  
 9/14/01. Waiting from Johnson Equip. for screens  
 and risers. Level B PPE to attach 5' risers.

PCB Soils: Re excavate 7 areas of high > 1 ppm  
 PCBs from Compuchem. All still < 50 ppm. Staged  
 as separate pile in fire pond. MET to place  
 road. Increase drainage ditch for pond excavation.  
 Confirmation from Compuchem expected 9/12 or 9/13.  
 PCB levels 2 - 29 ppm.

Blower Shed: Ryan finish pad 9/6. Great Lakes to  
 test concrete (3, 14, 28-day). Require 5000 psi.  
 To add coating and bring blower shed to site  
 9/17 or 9/18 depending on seal coat. Requested  
 costs from KES for well to blower shed piping.  
 Also contact 2-3 others. NO Bidding of project.  
Off-Site Utility: Assembling power boxes and power  
 pad mounting @ Colfax. Temp to EN 20C in place.

*Lydia Hunt*

(84)

High School

to be turned on after KES / power seeding.

Drilled 2 holes for power box. Driller 40-hr  
hr. AD at drill, only drilled in clay.

Drum Removal: Cont. call with PRP group.

looking for 60-day extension rather than 30 day.

Heritage to assess wastes for disposal.

Continue monitoring twice daily.

1100 Mtg adjourn. Next meeting 9/13/01 @ 10:00.

1135 Left for lunch

1205 Return to site

1235 Roll 14 Photo 13 Photo facing south east  
of Slusser's hydroseeding eastern portion  
of Area 1

1300 Roll 14 Photo 14 Facing North west Photo  
of BLA drilling SVE 33 and placing wet  
spoils on plastic tarp.

1315 Roll 14 Photo 15 Facing Northwest. Photo  
of product from SVE 33, Auger approx  
12 ft bgs.

1310 Spoils from SVE 33 were drummed with plastic  
liner to contain product on transfer from  
borehole to drum

1400 PVC coated tyre in for help w/ SVE 33

1410 Roll 14 Photo 16 Facing Northwest. Photo  
of BLA raising auger after sand pack

High School

(85)

High School

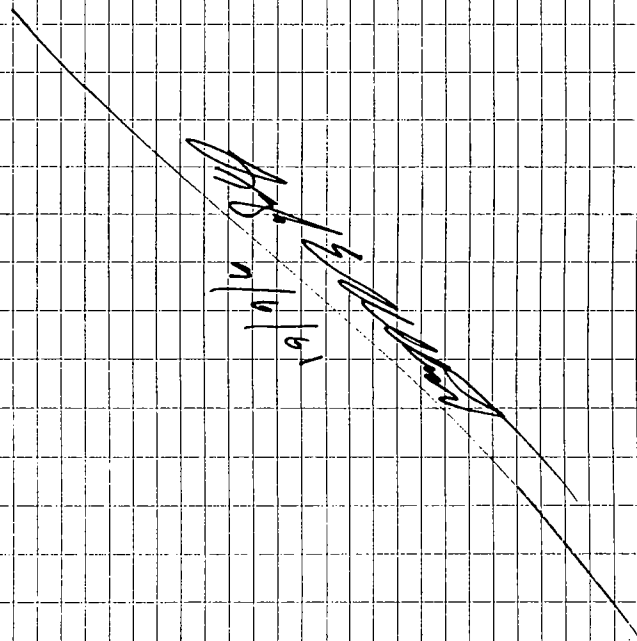
9/6/01

and removing free product. Note PVC coated  
tyre

1440 BLA began moving spoils to rolloff. Completed  
SVE 33 installation

1450 Observer NEI excavating larger drainage  
ditch in wetland area Spoils being placed  
on east end of wetland <sup>at</sup> north of  
drainage ditch.

1500 Left site for day



(86)

9/11/01

Joh E. E. E.

0715 Arrive on site. Weather - Clear 60°F

Forecast 80°F, light breeze from South

0725 Personnel on site

Lee Orosz MWH

T. Klingforth MWH

Keith Laszewski BLA

David Morris BLA

John Cook BLA

Jim Berthold BLA

Ken Field MEI

Ryan Fischer BLA

Jay Korte BLA

Roy Wilkins BLA

Alan Thomas BLA

Louis Marshall MEI

Jesse Gudenschwager MEI

Peter Vagt MWH

Gary Alexander Austgen

0735 Walked on site drum waste storage area.

Observed missing caution tape - broken

on northern roll off box storage. Also,

ponding of water on tarps. Integrity of

tarp remained intact.

0750 Observed OFCA samples have been in

contact with erosion matting and bag

Joh E. E. E.

(87)

9/11/01

Joh E. E. E.

0800 Roll 14 Photo 17 Facing East. Photo of  
Completed Swale 4 with erosion matting, seeding  
on topsoil around swale.

0815 BLA began drilling at SVE-31 and SVE-13.

Spoke with T. Klingforth regarding site activities.

MEI finished expanding drainage ditch. MWH

having MEI excavate additional 6 inches

near GWTP. based on Simulab results. Expect

Compuchem results on 9/12/01. Regarded

materials in response. Still have separate

portions, &gt;50 ppm and &lt;50 ppm. KES

off site. Slusser's to return 9/13 to finish

placing matting on Area 1. Austgen on site.

T. Klingforth performing air monitoring and soil

classification for drilling activities. Spoke

with P. Vagt earlier. He reported 16 wells

remain in OFCA, BLA hopes for 6- Tues, 6- Wed,

4- Thurs.

0925 BLA reported that half a barrel of product  
was removed from SVE-33.1030 MWH indicated that additional erosion  
matting will be placed south of swale 5  
and in Area 1- west side and east side Area 1

1040 Spoke with T. Trice regarding blower sheet prod.

Revising sealant for a shorter curing time

Joh E. E. E.

(88)

9/11/01 J. Albert

- 1045 concrete before application. Lab broke concrete sample Monday. MWH have not heard on rush its will check on 5000 psi MWH to cut 4 inches around foundation for blower shed payment. MWH to bridge splice 5 for K-P SVE piping.
- 1100 Roll 14 Photo 18 facing West. Photo of drainage ditch N of road and MEI extending across road and geotextile into wetland for pond excavation.
- 1105 Spoke w/ T. Tinies. Reexcavated spoils lined and tarped. will be moved to firepond.
- 1115 Roll 14 Photo 19 Facing west of firepond area with segregated over 50 ppm left side <50 ppm right side on poly.
- 1120 T. Tinies repaired caution tape on rolloff. He reported that Heritage to be out either today or tomorrow to assess drum waste for disposal. Can use hazard from before. Possibly will sort through rolloff debris and screen/separate materials for disposal.
- 1140 Spoke w/ T. Klingforth. Blue-black product on auger flights of SVE 15. Took drag for VC and benzene. Both zero. PID spiked at >2000 ppm

J. Albert

(89)

J. Albert

- 1230 Left Site for lunch
- 1300 Return to site
- 1345 Heritage at drum storage area to assess waste. MWH showed wastes, used PID for air monitoring.
- 1415 Observed BLA installing SVE wells.
- 1425 H&S Mtg with MEI, reviewed PPE, fire and emergency response. MEI to load out spike piles and excavate designated remaining areas tomorrow. Will decom bucket and work surrounding areas. Would like more stone on roadway W of GHTP. MWH to provide maps and signage for MEI trucks.
- 1500 BLA completed SVE 16 and SVE 17.
- 1515 Left Site for Day

9/11/01

(90)

9/13/01 *High Falls*

0700 Arrive onsite, cloudy, 65-70°F

forecasting, wind from southeast

Personnel Present:

\* Lee Ors2 MWH \* Tom Tines MWH  
 Roy Wilkin BLA \* Pete Vagt MWH  
 Alia Thomas BLA \* Travis Klingforth MWH  
 Mike Hancher MEI \* Todd Lewis MWH  
 Keith Laszenski BLA \* Rob Adams MWH  
 Dominick Sayers MEI  
 John Cook BLA  
 David Morris BLA  
 Jay Korte BLA  
 Ryan Fischer BLA  
 Magnin Jr.  
 \* Michael ~~Magnin~~ BLA  
 Gene Guinas MEI  
 Jim Berthold BLA  
 \* Ken Field MEI  
 Don Radtke MEI  
 Chad Smith MWH  
 \* Leigh Albrecht BVSPL

0715 Observed wetland, stockpiles of PCB-impacted materials removed. Road constructed.  
 One area of PCB-impacted material present on E portion of road near GWTP to still be removed.

*High Falls*

(91)

9/13/01

*High Falls*

0735 Spoke with C. Smith MWH. BLA installed all OFCA wells, finished 7/12/01. Setting up for air sparge points. MWH and BLA working on details. BLA decreasing equipment today. BLA knocked over SVE 36. Broke at 5 foot riser extension. BLA to repair by fitting collar over joint between risers.

0740 Roll 14 Photo 20 facing northwest. Photo of SVE 86 and riser.

0745 observed Avotya installing electrical box at EW20C. MEI placing soils on E portion of OFCA near Colfax.

0810 observed MEI excavating from wetland area. MEI excavating materials from areas that PCBs < 1. Skipped over areas that were tested last week. Spoke with Todd Lewis/MWH looking into a different sealant that doesn't require 28-day cure for cement prior to application. Earlier, C had Smith reported that June GW sampling event full list of parameters. Report to be out shortly. T. Klingforth - Problem areas 37 and 42 - PCBs around 1-2 ppm. Remaining areas are clean. Results sent to Simulabs and Compuchem. Agreement on all results but #42. Simulabs < 1 ppm, Compuchem > 1 ppm.

*High Falls*



(92)

9/19/01

T. S. Sallent

- 0930 Roll 14 Photo 21 Facing Northeast. Photo of MEI Unloading material excavated from wetlands onto OFCA near Colfax Ave.
- 0935 Slusser's arrived on OFCA to finish seeding and laying erosion matting
- 1000 Construction Meeting
- Attendees \* on previous list plus Kevin Adler and Sean Grady via phone.
- H+S: no incidents. Ordered signage for buried cable, overhead lines. Continue weekly H+S meetings and tool box H+S meetings daily
- GWTP: running fine. Have surge capacity.
- Receiving water from wetland. Discharging appx 55 gpm. All wetland water expected to go to GWTP directly.
- OFCA: Completed with few exceptions. KES demobilized. clay is placed. 50% of erosion matting placed; Slusser's expected to place balance on 9/13/01 pending weather. Final cap constructed in non-engineered areas. Interim cover installed in engineered area.
- ISVE: All 42 wells in OFCA installed.
- All to design depth. All but SVE-13 installed at design location. SVE-13 moved 10 feet north for blower shed. Still determining

T. S. Sallent

(93)

9/13/01

T. S. Sallent

disposal of cuttings. BLA installing air sparge points 9/13/01. Replacement piezometers to be installed week of 9/17/01.

Piezometers: MWH to determine placement 9/13/01.

PDE will start at level C will upgrade as needed based on air monitoring.

PCB Excavation: Reexcavated 5 'hot zones' spoils placed in firepond area. Reinstalled temporary road. Will remove remaining 'hot spots' as move back from West point of excavation. Area survey to survey excavation. Sit fencing to be installed around piles at OFCA. excavation to be completed end of next week.

Blower Shed: pad installed, to place coating + shed next 2 weeks.

Solicitation for piping installation next 2-3 weeks.

Offsite Utility: Nipsoo to place pole by South entrance in OFCA.

Drum: Heritage out. Incinerate wastes. <sup>decision on fit for site</sup> 1055 Mtg. adjourn.

1115 Walked site w/ MWH and M. Maggen from BLA for locating piezometers. BLA installing air sparge - Slusser's placing erosion matting

1245 BLA finished 2 of 3 air sparge - To install 3rd today

1250 Observed BLA decommission auger flights on drum pad

1300 Left site to go back to office

T. S. Sallent

9/13/01

(94)

9/19/01

Jeff Edmest

0725

Arrive Qasite, Cloudy and RAIN Temp 69°F  
Wind from the South-Southwest  
Personnel Onsite

Lee Drosz MWH

Gene Gaines MEI

David Morris BLA

Jay Korte BLA

John Crook BLA

Lawrence Erdman BLA

Ryan Fischer BLA

Jim Berthold BLA

Alan Thomas BLA

Ray Wilkins BLA

Ken Field MEI

Louis Marshall MEI

Leigh Albright BVSOC

0730

Spoke with L. Drosz. He reported that  
BLA installed piezometers. BLA currently  
decomming equipment. L. Drosz reported  
that BLA expects to be off site today.  
Also reported ~ 4/10 inch rain received.

0745

Observed MEI excavating and grading  
eastern portion of wetland. Western  
portion of excavation partially filled with  
water. Temporary road remains

Jeff Edmest

(95)

9/19/01

Jeff Edmest

0800 Observed MEI move pump in wetland  
approx. 50 feet West of P6C8. Spoke with  
K. Field of MEI. He reported removed  
approx. 3,000 cy to date. West portion of  
wetland primarily to grade. Today will be  
backfilling a portion of trench East of  
pump location and placing material on east  
portion of wetland. K. Fields stated that  
he expected 3 more days of digging and  
will excavate where road is for pond.

K. Fields also stated silt fencing installed on OFCA  
late last week / Monday. Bulldozer will regrade  
materials to make room for remaining.

0850 Roll #14 Photo 22 Facing Northwest. Photo  
of MEI excavating eastern portion of pond  
and backfilling eastern portion of extraction  
trench located east of relocated pump.

0915 Delegate Group from Taiwan and Pete Vagt, Ken Quinn  
arrived on site.

0930 Attended Tour of GWTP

1000 R. Adler and J. Pope from USEPA arrived on site

1015 S. Grady from IDEM arrived on site

MWH conducted meeting and presentation for  
delegates

1200 MEI ~~for~~ <sup>2A</sup> operating pump from drainage

(96)

9/17/01 *Field Notes*

- Atch. Not road in wetlands. Spoke to T. Tinics regarding piezometer installation. Kipt. NN piezometers - placed PVC extension. He reported that other piezometers were stainless steel. T. Tinics did not know depth.
- 12:20 WALKED OFCA. Gravel laid as road into site from south gate. Grass growing on seeded areas. Observed silt fencing around wetland soils. Clay washed into a portion of Swale 3 on North side. Also observed standing water in swale 4. Especially at location where swale 2 meets swale 4 near EN20C.
- 12:30 Roll 14 Photo 23 Facing west. Photo of standing water in swale 4 between EN20C and EN20B.
- 12:40 Red roll off box with drill cuttings still staged on OFCA. No longer has orange cones around it and is not cautioned off. Tarp is intact.
- 13:40 Delegates and ~~report to~~ <sup>with</sup> K. Adler. J. Pope left site.
- 14:40 K. Fields reported OFCA too wet to move piles <sup>regrade</sup>.
- 15:00 Observed T. Tinics at MWH perform roll off and drum inspection.
- 15:30 left site for day

*Field Notes*

(97)

9/20/01

*Field Notes*

- 0730 Arrive on site. Clear, 68°F breeze from South west.
- 0750 Observed MEI grading northeastern portion of wetland excavation. Lee Orosz reported that US Floor is placing sealant on concrete blower shed foundation in OFCA. will take majority of day. Changed to sealant that can be applied to "green" concrete.
- 0830 Observed US Floor preparing concrete pad for coating application. Earlier T. Tinics reported that an additional 4 inches were cut from concrete that surrounds the blower shed. After the shed is placed MWH will be inserting foam into gap between shed and concrete curb and will seal with silicone.
- 0840 US Floor pouring 10% HCl on concrete pad. Asked if they needed any PPE for activities. Wearing a vehicle and hard gloves and safety glasses.
- 0930 Mentioned to L. Orosz that US Floor started without gloves. He would reiterate safety with them. He also stated that waste HCl will be treated in GWTP. per contract.
- 0935 Personnel Present on Site
- |             |          |
|-------------|----------|
| * Lee Orosz | MWH      |
| Ken Field   | MEI      |
| Juan Pulido | US Floor |

*Field Notes*

(98)

9/20/01 *High School*

Jose Pulido US Floor  
 \* Leigh Albrecht BVSPC  
 \* Todd Lewis MWH  
 \* Tom Tinius MWH  
 \* Robert Adams MWH  
 \* Travis Klingforth MWH  
 \* Chris Daly MWH  
 \* Chad Smith MWH

## 1005 Weekly Construction Mtg.

Attendees \* on previous list plus  
 P. Vagt-MWH, K. Adler - USEPA, Sean Grady  
 IDEM via phone.

H+S: Corporate H+S review of site  
 conducted, no deficiencies. Signage ordered  
 and installed. Working with Griffith Police  
 for wetland protection. Note deer hunting  
 season started, wear orange vests during  
 monitoring well activities.

GWTP: Influent from wetlands mostly.  
 Pumping from EN10 (ONCA) EN11 (ONCA).  
 Pumping 1 gpm from MW56 since 6/6/01  
 to see if benzene in lower aquifer from  
 leaking ATMN 4D which was abandoned.

DPCA COVER: Complete, KES to lay more  
 erosion matting on clay. Final documents

*High School*

(99)

9/20/01 *High School*

expected in October. Part of shed access  
 road installed on non-engineered area.

ISVE/Air Sparge: All 42 wells installed. Air sparge  
 AST, ASB, AST installed using HSA techniques  
 all in level B PPE. Roll off with cuttings  
 to be transferred to ONCA roll off storage.  
 RFB out for yard piping. BIA collared risers on SVE3L

Piezometers: Installed per diagram P95/96  
 integrity ok MWH used water level to check.  
 extension installed on P96. Installation complete  
 on 9/19.

FCB soils excavation: MEI mid 1-2 days of  
 excavating material for completion 2 areas  
 to be excavated to firepond - one area  
 under road, second area near GWTP.  
 May investigate direct discharge at portion  
 of GWTP effluent to pond area. Discussed  
 elevation of wetland restoration to original grade.

Blower Shed: Cracked sample after 4 days -  
 3500 psi. US Floors to finish sealant today  
 muretic acid to be treated in GWTP. Blower  
 Shed scheduled 9/25, then electric next week.  
 NIPSCO installed drop. Mustang to connect  
 to power box and NIPSCO to inspect and  
 connect breaker. RFP for blower shed piping to go out.

*High School*

(100)

9/20/01

J. S. Edwards

Drum Removal: MNH expects submittal from Heritage. Likely to go with Heritage 30 day extension expires soon.

Next Meeting: September 27 @ 10:00 AM

1055 Meeting adjourn.

1200 left Site for Day

~~MEI 9/21/01~~

(101)

9/25/01

J. S. Edwards

0715 Arrive onsite. Partly cloudy, 50-55°F light breeze

Personnel Present:

Lee Drosz MNH

Ken Field MEI

Don Radtke MEI

Louis Marshall MEI

Rudolf Stein MNH

Lesley Hieholzer MNH

Tim Kirkland Austgen's

Rebecca Conant MNH

Travis Klingforth MNH

Chad Smith MNH

Lugh Albrecht BVSPC

0725 Spoke with K. Field. He reported that pond is primarily done. Needs to remove 2 additional areas of material for firepond. One area near GWTP that is >50 ppm. The second area came back <1 ppm but MEI to excavate to specific area. Stopped pumping from excavation. Will pull pump and remove jump that diverts ACS storm water runoff to area south of truck. MNH to resample the area west of GWTP.

J. S. Edwards

(102)

7/25/01

Zyg E. Smith

- 0745 Walked OFCA. gravel road extended to Blower shed slab. Excavation materials stockpiled on East portion to EN 19 B. Silt fencing surrounds wetland materials and wood chips / trees. Sealant coating Blower shed foundation. Water in foundation slab. Shed on-site to be installed today. Oxygen tanks and roll off still on OFCA remaining from <sup>LA</sup> 15VE well installation.
- 0830 3 members of MWH started to take water level measurements. Rudy and Lesley to perform MW sampling. Observed sampling at well MW56. Took 3 samples for VOCs, one for metals. Semi permanent well, Rudy stated no water level taken.
- 0900 Completed MW56 sampling.
- 0930 Roll 14 Photo 24 Facing West of pond and MEI removing temporary road.
- 0945 Began sampling activities at MW9R.
- 1020 MWH started installing OFCA Blower shed <sup>LA</sup>.
- 1030 Roll 14 Photo 25 Facing East of placing blower shed into concrete slab.
- 1035 Roll 14 Photo 26 Facing East of crane positioning shed for installation on concrete slab.

Zyg E. Smith

(103)

7/25/01

Zyg E. Smith

- 1100 Blower shed in place.
- 1120 Observed GW sampling at MW10C - VOCs only.
- 1230 Left Site for Lunch.
- 1300 Return to site observed monitoring at MW4E. VOCs, Metals, and MS/MSD. Upper Aquifer.
- 1400 MWH began sampling activities at MW4A. Wells sampled: MW56, MW9R, MW10C, MW4B, MW49. All sampled for VOCs. All <sup>lead in</sup> but MW10C sampled for Arsenic and lead. MW4B MW49 - Upper Aquifer. Remainder lower aquifer. C. Smith reported.
- 1500 C. Smith reported that MWH to sample 5 ORC wells in South test area. Sample for VOCs only. Samples submitted to Compuchem. J. W. T. A. T.
- 1515 Roll 14 Photo 26 Facing North of C. Smith and L. Hickholzer sampling MW49 for Metals.
- 1530 Observed that MEI excavated material adjacent to BWTP and removed road.
- 1540 Left Site for Day.

7/25/01

(104)

9/27/01

Toby Eckert

0720 Arrive Onsite. Partly Cloudy, 55°F

Light breeze from North

0730 Walked Wetland Area, pumps have been removed from excavation area and from sump at NW <sup>SW</sup> ~~corner~~ corner of GWTP that was diverted to South side of tracks.

0735 Roll 14 Photo 28 Facing E. Photo of completed pond excavation in wetland area.

0740 Observed 2 large concrete pieces approx 2' x 4' in size and a concrete cylindrical casing approx 1.5' diameter in the bottom side of pond, Southeast portion. Pole installed approx 20 feet from pond edge in east side. Small swale placed on North side of pond approx 30 feet in length from GWTP discharge structure. Swale comprised of geotextile and riprap with rebar protruding, large concrete pieces.

0820 Personnel Present On Site:

Tim Kirkland	Austgen's
* Leigh Albrecht	BVSPC
* Tom Tines	MNH
* Ken Field	MEI

Toby Eckert

9/27/01

Toby Eckert

(105)

Tony Ferrin MEI

\* Travis Klingforth MWH

\* Rob Adams MWH

0835 Roll 15 Photo 1 Facing West looking at ground. Photo of discharge point in wetland draining towards swale and pond.

0840 Roll 15 Photo 2 Facing Southwest at ground. Photo of swale from drainage to pond. Note geotextile, concrete pieces with rebar not present<sup>thru</sup> throughout length of swale. Appx. 20 feet to tip rap from drainage, nothing except ground present, soil. Then appx 30<sup>ft</sup> feet of geotextile and concrete with rebar to pond.

0900 MEI prepared to wash temporary road sections. Washwater to go into pond.

1010 Weekly Construction Meeting

Attendees: \* on previous list plus

L. Orosz, T. Lewis, V. Agrawal, C. Daly - MWH

L. Campbell (BVSPC) Sean Grady (IOER)

via conference phone

Health and Safety: No incidents. MWH posted no trespassing and other signs.

GWTP: Not pumping from wetlands. Discharge to wetlands. Piping to South of tracks has been removed. Pumping from EW 11

Toby Eckert



(106)

Zyg Elliott

9/27/01

EN19, EN20B, EN20C, EN10 and MN56

Discharging to wetlands since Tuesday

GW Sampling: Water levels and 5 MW  
sampled on 9/25/01.DRC: Sampled 9/26/01 for Sept. EventResidential: Scheduled for October.PCB Soils/Wetland: Excavated last  
hot spot. Pond excavation complete.Swale from ~~drainage~~<sup>LA</sup> GWTTP discharge  
structure into pond on North side with  
geotextile and concrete debris. 2 confirm  
samples from hot spot sent this week  
to Compuchem. Expect results next week.MEI to cut swale from ACS outfall to  
bypass pond and go to wetland. S. Grady  
mentioned adding grassy materials on  
East portion for access. MWH to consider.Blower Shed: Sealant placed 9/20/01.

48 hour cure. Shed installed 9/25/01.

Yard piping bids due 9/28/01 to be  
installed in next couple weeks. Connecting  
piping to blower shed soon. Austgen to  
install MCC in next weeks. Oxidizer had  
been delayed to November.Utility NIPSCO installed drop. To be

Zyg Elliott

(107)

9/28/01

Zyg Elliott

charged when MCC installed. Will continue  
temporary use to extraction wells.Drum Removal: Heritage selected. Contract  
to be finalized this week. MWH to submit  
memo detailing work. Overpicks go as is,  
roll offs will be processed.Next Meeting: October 4, 2001 at 10:00

1030 Meeting adjourn.

1100. Spoke with T. Tinico, pdc in wetland forum<sup>LA</sup> is  
for a bat house. R. Adams reported earlier that  
the concrete in pond is for establishing wild life.1130 observed T. Klingforth and T. Tinico sample  
the material from "hot spot" excavation load  
at fire pond. Sampled 5-composited together.  
for PCBs.1245 left site to go to ~~Durham Project~~<sup>LA</sup> OfficeZyg Elliott  
9/27/01





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #1

Date: 08-30-01 Time: 07:45

Photographer: Leigh Albrecht

Description: Photo facing southwest showing Boart Longyear drilling SVE-3. Note Chad Smith conducting air monitoring with PID at the boundary of the exclusion zone.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #2

Date: 08-30-01 Time: 09:30

Photographer: Leigh Albrecht

Description: Photo facing northwest showing Koester Environmental Services grading topsoil for swale 4 on OFCA.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #3  
 Date: 08-30-01 Time: 13:20  
 Photographer: Leigh Albrecht  
 Description: Photo facing west of completed  
 penetration piping at the OFCA blower  
 shed excavation.



Site: American Chemical Services  
 Proj. #: 46526  
 Roll: 14 Photo #4  
 Date: 09-04-01 Time: 12:40  
 Photographer: Leigh Albrecht  
 Description: Photo facing north of truck depositing  
 load of topsoil on OFCA. Smooth drum  
 roller in background working constructing  
 swale 4.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #5

Date: 09-04-01 Time: 12:50

Photographer: Leigh Albrecht

Description: Photo facing west showing dewatered areas of wetland excavation and remaining areas of PCB soils >1ppm from initial excavation.



Site: American Chemical Services

Proj. #: 46526

Roll: 14 Photo #6

Date: 09-04-01 Time: 14:20

Photographer: Leigh Albrecht

Description: Photo facing south showing Ryan Construction placing CA-6 gravel for the blower shed pad foundation.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #7

Date: 09-04-01 Time: 14:50

Photographer: Leigh Albrecht

Description: Photo facing north of Boart Longyear decontaminating auger flights on concrete pad located immediately west of the GWTP.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #8

Date: 09-04-01 Time: 14:55

Photographer: Leigh Albrecht

Description: Photo facing south of Midwest Environmental, Inc. regrading excavation located immediately west of GWTP.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #9  
 Date: 09-04-01 Time: 15:55  
 Photographer: Leigh Albrecht  
 Description: Photo facing south of Boart Longyear  
 drilling SVE-27 in modified Level B PPE  
 and placing spoils on a plastic tarp.



Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #10  
 Date: 09-06-01 Time: 07:30  
 Photographer: Leigh Albrecht  
 Description: Photo facing southeast of Ryan  
 Construction installing the embedment  
 strip on the wood form prior to concrete  
 pour for the blower shed slab.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #11

Date: 09-06-01 Time: 07:55

Photographer: Leigh Albrecht

Description: Photo facing southwest of Ryan  
Construction pouring concrete slab at the  
northwest portion of the OFCA blower  
shed.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #12

Date: 09-06-01 Time: 08:45

Photographer: Leigh Albrecht

Description: Photo facing northwest of Chad Smith  
from Montgomery Watson Harza  
characterizing samples from 20 foot  
depth, wells SVE-23 and SVE-18.





Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #13  
 Date: 09-06-01 Time: 12:35  
 Photographer: Leigh Albrecht  
 Description: Photo facing southeast of Slusser's  
 hydroseeding the eastern portion of Area  
 1 of the OFCA.

Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #14  
 Date: 09-06-01 Time: 13:00  
 Photographer: Leigh Albrecht  
 Description: Photo facing northwest of Boart  
 Longyear drilling SVE-33 and placing  
 saturated spoils on tarp.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #15

Date: 09-06-01 Time: 13:05

Photographer: Leigh Albrecht

Description: Photo facing northwest showing product retrieved from SVE-33. Depth of the auger is approximately 12 feet below ground surface.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #16

Date: 09-06-01 Time: 14:10

Photographer: Leigh Albrecht

Description: Photo facing northeast of Boart Longyear raising auger at SVE-33 after sand pack and removing free product. Note the PPE upgrade to PVC-coated tyvek suits.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #17

Date: 09-11-01 Time: 08:00

Photographer: Leigh Albrecht

Description: Photo facing northeast of swale 4,  
complete with top soil, erosion matting,  
and seeding.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #18

Date: 09-11-01 Time: 11:00

Photographer: Leigh Albrecht

Description: Photo facing west of drainage ditch  
located north of temporary road in  
wetlands. Midwest Environmental, Inc.  
extending temporary road and geotextile.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #19

Date: 09-11-01 Time: 11:00

Photographer: Leigh Albrecht

Description: Photo facing west of the firepond area showing the segregated pile of soils with initial PCBs detections greater than 50 ppm (south) and less than 50 ppm (north ).



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #20

Date: 09-13-01 Time: 07:40

Photographer: Leigh Albrecht

Description: Photo facing northwest looking at SVE-36 which was knocked down by a Boart Longyear employee. Well riser broke at coupling with the well.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #21

Date: 09-13-01 Time: 09:30

Photographer: Leigh Albrecht

Description: Photo facing northeast of Midwest Environmental, Inc. unloading material excavated from wetlands pond onto western portion of Area 1 on OFCA.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #22

Date: 09-19-01 Time: 08:50

Photographer: Leigh Albrecht

Description: Photo facing northwest showing Midwest Environmental, Inc. excavating eastern portion of pond and backfilling eastern portion of extraction trench east of pump.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #23

Date: 09-19-01 Time: 12:30

Photographer: Leigh Albrecht

Description: Photo facing west of ponding water located at the intersection of swale 4 and swale 2 on the OFCA near extraction wells EW-20B and EW-20C.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #24

Date: 09-25-01 Time: 09:30

Photographer: Leigh Albrecht

Description: Photo facing west of pond and Midwest Environmental, Inc. removing the temporary road.



Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #25  
 Date: 09-25-01 Time: 10:30  
 Photographer: Leigh Albrecht  
 Description: Photo facing east of crane positioning  
 OFCA blower shed for placement onto  
 the concrete slab.

Site: American Chemical Services, Inc.  
 Proj. #: 46526  
 Roll: 14 Photo #26  
 Date: 09-25-01 Time: 10:35  
 Photographer: Leigh Albrecht  
 Description: Photo facing east of crane placing OFCA  
 blower shed onto the concrete slab.





Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 14 Photo #27

Date: 09-25-01 Time: 15:15

Photographer: Leigh Albrecht

Description: Photo facing north of Chad Smith and  
Lesley Hierholzer of Montgomery  
Watson Harza sampling MW-49 for  
metal analysis.

Site: American Chemical Services, Inc.

Proj. # 46526

Roll: 14 Photo #28

Date: 09-27-01 Time: 07:35

Photographer: Leigh Albrecht

Description: Photo facing east of the completed pond  
in wetland area.